

10/631,862

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LOGINID:SSSPTA1204RXW

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

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NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 JUL 12 BEILSTEIN enhanced with new display and select options,  
resulting in a closer connection to BABS  
NEWS 4 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display  
fields  
NEWS 5 AUG 02 CAPLUS and CA patent records enhanced with European and Japan  
Patent Office Classifications  
NEWS 6 AUG 02 The Analysis Edition of STN Express with Discover!  
(Version 7.01 for Windows) now available  
NEWS 7 AUG 27 BIOCOMMERCE: Changes and enhancements to content coverage  
NEWS 8 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal  
status data from INPADOC  
NEWS 9 SEP 01 INPADOC: New family current-awareness alert (SDI) available  
NEWS 10 SEP 01 New pricing for the Save Answers for SciFinder Wizard within  
STN Express with Discover!  
NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX  
NEWS 12 SEP 27 STANDARDS will no longer be available on STN  
NEWS 13 SEP 27 SWETSCAN will no longer be available on STN  
NEWS 14 OCT 28 KOREAPAT now available on STN

NEWS EXPRESS OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT  
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
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NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 09:24:41 ON 12 NOV 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE  
ENTRY

TOTAL  
SESSION

10/631,862

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 09:24:54 ON 12 NOV 2004  
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provided by InfoChem.

STRUCTURE FILE UPDATES: 10 NOV 2004 HIGHEST RN 778546-63-7  
DICTIONARY FILE UPDATES: 10 NOV 2004 HIGHEST RN 778546-63-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> ....Testing the current file.... screen

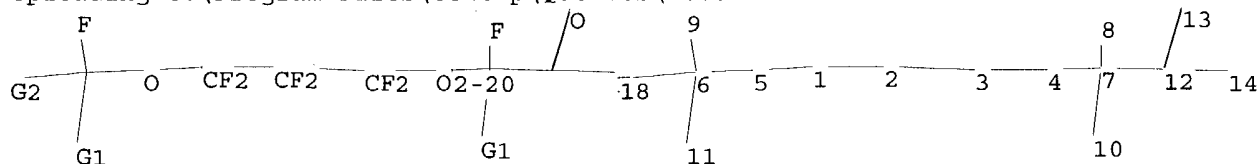
ENTER SCREEN EXPRESSION OR (END):end

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838

L1 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10631862.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 18

chain bonds :

1-2 1-5 2-3 3-4 4-7 5-6 6-9 6-11 6-18 7-8 7-10 7-12 12-13 12-14

exact/norm bonds :

4-7 5-6 6-11 6-18 7-10 12-13

exact bonds :

1-2 1-5 2-3 3-4 6-9 7-8 7-12 12-14

G1:F,CF3

G2:C,F

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 18:CLASS

10/631,862

L2            STRUCTURE    UPLOADED

=> que L2 NOT L1

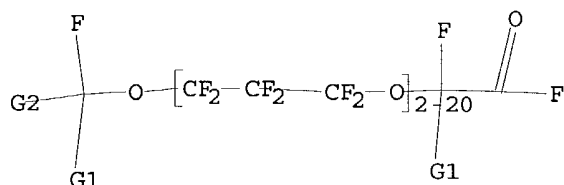
L3      QUE L2 NOT L1

$$\Rightarrow d$$

L3 HAS NO ANSWERS

L1 SCR 1992 OR 2016 OR 2021 OR 2026 OR 1838

L2 STR



G1 F, CF3

G2 C, F

Structure attributes must be viewed using STN Express query preparation.

L3                      QUE    L2 NOT L1

=> s 13

STRUCTURE TOO LARGE - SEARCH ENDED

A structure in your query is too large. You may delete attributes or atoms to reduce the size of the structure and try again.

```
=> ....Testing the current file.... screen
```

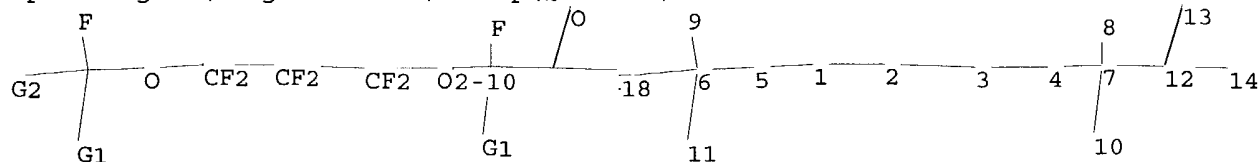
ENTER SCREEN EXPRESSION OR (END):end

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838

L4 SCREEN CREATED

$$= \gamma$$

Uploading C:\Program Files\Stnexp\Queries\10631862b.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 18

chain bonds :

1-2   1-5   2-3   3-4   4-7   5-6   6-9   6-11   6-18   7-8   7-10   7-12   12-13   12-14

exact/norm bonds :

4-7    5-6    6-11    6-18    7-10    12-13

exact bonds :

1-2    1-5    2-3    3-4    6-9    7-8    7-12    12-14

10/631,862

G1:F,CF3

G2:C,F

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS  
10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 18:CLASS

L5 STRUCTURE UPLOADED

=> que L5 NOT L4

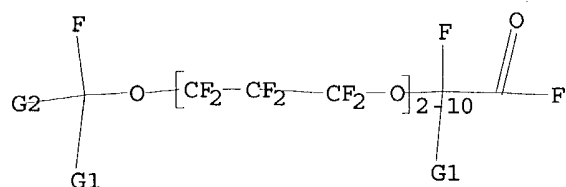
L6 QUE L5 NOT L4

=> d

L6 HAS NO ANSWERS

L4 SCR 1992 OR 2016 OR 2021 OR 2026 OR 1838

L5 STR



G1 F,CF3

G2 C,F

Structure attributes must be viewed using STN Express query preparation.

L6 QUE L5 NOT L4

=> s l6

SAMPLE SEARCH INITIATED 09:29:10 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 47 TO ITERATE

100.0% PROCESSED 47 ITERATIONS

0 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 529 TO 1351

PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L5 NOT L4

=> s l6 ful

FULL SEARCH INITIATED 09:29:19 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 897 TO ITERATE

100.0% PROCESSED 897 ITERATIONS

2 ANSWERS

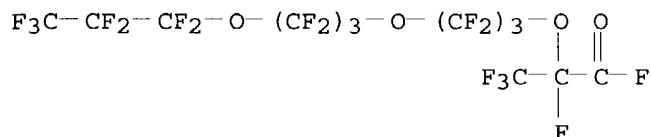
SEARCH TIME: 00.00.01

L8 2 SEA SSS FUL L5 NOT L4

10/631,862

=> d scan

L8 2 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN  
IN Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-[1,1,2,2,3,3-hexafluoro-3-  
[1,1,2,2,3,3-hexafluoro-3-(heptafluoropropoxy)propoxy]propoxy]- (9CI)  
MF C12 F24 O4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus uspatful casreact

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

158.36

158.57

FILE 'CAPLUS' ENTERED AT 09:29:46 ON 12 NOV 2004  
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FILE 'USPATFULL' ENTERED AT 09:29:46 ON 12 NOV 2004  
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FILE 'CASREACT' ENTERED AT 09:29:46 ON 12 NOV 2004  
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=> s l8

L9 7 L8

=> dup rem l9

PROCESSING COMPLETED FOR L9

L10 6 DUP REM L9 (1 DUPLICATE REMOVED)

=> d 1-6 bib ab fhitr

L10 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1995:371032 CAPLUS  
DN 122:265316  
TI Synthesis of 3-perfluoro-substituted 1,2,4-triazolyl-5-amines and  
-5-thiols  
AU Vershilov, S. V.; Popova, L. M.; Mungalov, V. E.; Ryabinin, N. A.  
CS RNTS 'Prikladnaya Khimiya', St. Petersburg, Russia  
SO Zhurnal Prikladnoi Khimii (Sankt-Peterburg) (1994), 67(7), 1124-6  
CODEN: ZPKHAB; ISSN: 0044-4618  
PB Nauka  
DT Journal  
LA Russian  
AB Title compds. I [R = C6F13, C3F7OC3F6OCF(CF3), C3F7O(C3F6O)2CF(CF3); Y =

10/631,862

NH<sub>2</sub>, SH] were prepared by reaction of RCOF with H<sub>2</sub>NNHCXNH<sub>2</sub> (X = NH, S) to give RCONHNHCXNH<sub>2</sub>, followed by intramol. cyclization.

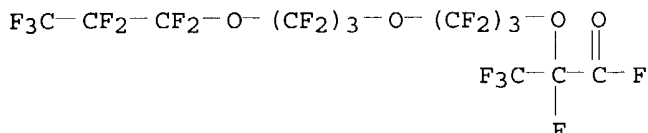
IT 61097-78-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of perfluoroalkylated triazolamines and triazolethiols)

RN 61097-78-7 CAPLUS

CN Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-[1,1,2,2,3,3-hexafluoro-3-[1,1,2,2,3,3-hexafluoro-3-(heptafluoropropoxy)propoxy]propoxy]- (9CI) (CA INDEX NAME)



L10 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1

AN 1994:133856 CAPLUS

DN 120:133856

TI Process for preparation of perfluoro ether carboxylic acids by hydrolysis of acyl fluorides

IN Ebmeyer, Frank; Schwertfeger, Werner; Strutz, Heinz; Zimmermann, Vincenz

PA Hoechst A.-G., Germany

SO Ger. Offen., 5 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4213641	A1	19931028	DE 1992-4213641	19920425
	JP 06009487	A2	19940118	JP 1993-98102	19930423
PRAI	DE 1992-4213641		19920425		

OS CASREACT 120:133856; MARPAT 120:133856

AB Title acids CmR<sub>2</sub>m+10(C<sub>3</sub>F<sub>6</sub>O)nCF(CF<sub>3</sub>)CO<sub>2</sub>H [I; m = 1-8; n = 0-8] are prepared in high purity, with lower levels of HF contamination, and with lower consumption of water. The method involves: (a) hydrolysis of fluorides CmR<sub>2</sub>m+10(C<sub>3</sub>F<sub>6</sub>O)nCF(CF<sub>3</sub>)COF (II) by intensive stirring for 5-60 min with recycled aqueous phase from step d below; (b) separation into aqueous HF and I layers;

(c) extraction of the I phase with 0.1- to 2.0-fold weight of H<sub>2</sub>O; (d) phase separation

again; and (e) recycling of the step d aqueous phase to step a. Use of the method to hydrolyze 400 g of II mixture [m = 3; n = 0 (29%), 1 (49%), 2 (20%), and 3 (2% by weight)] gave as product 394 g I phase with HF content 0.1 g/L and H<sub>2</sub>O content 12%. In contrast, simple hydrolysis with H<sub>2</sub>O gave either 399 g I phase with HF 1.2 g/L and 11% H<sub>2</sub>O, or 442 g I phase with HF 1.3 g/L and 22% H<sub>2</sub>O. A large-scale example (330 kg acyl fluoride mixture) gave HF content <0.1 g/L.

IT 61097-78-7

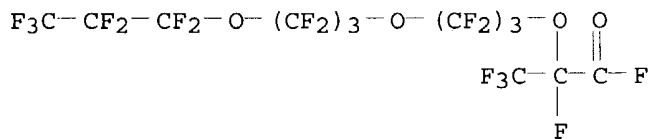
RL: RCT (Reactant); RACT (Reactant or reagent)

(improved hydrolysis of perfluoro ether acyl fluorides with water recycling)

RN 61097-78-7 CAPLUS

CN Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-[1,1,2,2,3,3-hexafluoro-3-[1,1,2,2,3,3-hexafluoro-3-(heptafluoropropoxy)propoxy]propoxy]- (9CI) (CA INDEX NAME)

10/631,862



L10 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1978:104700 CAPLUS

DN 88:104700

TI Perfluoroalkoxypropionyl fluorides

IN Martini, Thomas

PA Hoechst A.-G., Fed. Rep. Ger.

SO Ger. Offen., 13 pp.

CODEN: GWXXBX

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2627986	A1	19780105	DE 1976-2627986	19760623
	DE 2627986	C2	19850214		
	NL 7706709	A	19771228	NL 1977-6709	19770617
	NL 187572	B	19910617		
	NL 187572	C	19911118		
	US 4118421	A	19781003	US 1977-808537	19770621
	JP 52156810	A2	19771227	JP 1977-73398	19770622
	JP 61001416	B4	19860117		
	CA 1080253	A1	19800624	CA 1977-281134	19770622
	BE 856041	A1	19771223	BE 1977-178721	19770623
	FR 2355796	A1	19780120	FR 1977-19232	19770623
	FR 2355796	B1	19820319		
	GB 1550268	A	19790808	GB 1977-26311	19770623

PRAI DE 1976-2627986

19760623

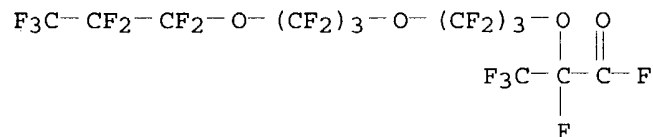
AB RO[CF(CF<sub>3</sub>)CF<sub>2</sub>O]<sub>n</sub>CF(CF<sub>3</sub>)COF (I; R = perfluoroalkyl; n = 0-3) were prepared by the addition of hexafluoropropylene epoxide (II) to RCOF in an aprotic polar solvent at -50 to +20° in the presence of catalytic (R<sub>1</sub>N)<sub>2</sub>CQ (R<sub>1</sub> = alkyl, Q = F<sub>2</sub>, O or S). Thus, 500 g of a 65:35 (weight ratio) II-hexafluoropropene mixture was added over 18 h to 15 g (Me<sub>2</sub>N)<sub>2</sub>CF<sub>2</sub> in 75 mL Me(OCH<sub>2</sub>CH<sub>2</sub>)<sub>4</sub>OMe at -30 to -25° to give, after 18 h addnl. stirring, 192 g I (R = C<sub>3</sub>F<sub>7</sub>, n = 1) and 100 g I (R = C<sub>3</sub>F<sub>7</sub>, n = 2) (RCOF was generated in situ).

IT 61097-78-7P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

RN 61097-78-7 CAPLUS

CN Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-[1,1,2,2,3,3-hexafluoro-3-[1,1,2,2,3,3-hexafluoro-3-(heptafluoropropoxy)propoxy]propoxy]- (9CI) (CA INDEX NAME)



L10 ANSWER 4 OF 6 USPATFULL on STN

AN 78:56060 USPATFULL

10/631,862

TI	Process for the manufacture of perfluoro-alkoxy-propionic acid fluorides		
IN	Martini, Thomas, Bad Soden am Taunus, Germany, Federal Republic of		
PA	Hoechst Aktiengesellschaft, Frankfurt am Main, Germany, Federal Republic of (non-U.S. corporation)		
PI	US 4118421	19781003	
AI	US 1977-808537	19770621 (5)	
PRAI	DE 1976-2627986	19760623	
DT	Utility		
FS	Granted		
EXNAM	Primary Examiner: Schwartz, Gerald A.		
LREP	Curtis, Morris & Safford		
CLMN	Number of Claims: 6		
ECL	Exemplary Claim: 1		
DRWN	No Drawings		
LN.CNT	275		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Perfluoro-alkoxy propionic acid fluorides may be obtained by reacting hexafluoro-propene epoxide with a perfluoro-carboxylic fluoride in an aprotic polar solvent in the presence of a N,N,N', N'-tetrasubstituted diaminodifluoromethane as catalyst.

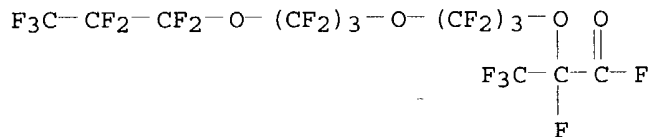
The compounds obtained may be used as starting products for valuable perfluoro ethers which are highly inert towards heat or aggressive chemicals, such as fluorine.

IT 61097-78-7P

(preparation of)

RN 61097-78-7 USPATFULL

CN Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-[1,1,2,2,3,3-hexafluoro-3-[1,1,2,2,3,3-hexafluoro-3-(heptafluoropropoxy)propoxy]propoxy]propoxy] - (9CI)  
(CA INDEX NAME)



L10 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1977:4880 CAPLUS

DN 86:4880

## TI Irradiation of perfluorocarbonyl ethers

AU Martini, Thomas

CS Hoechst AG, Frankfurt, Fed. Rep. Ger.

SO Tetrahedron Letters (1976), (22), 1865-6

CODEN: TELEAY; ISSN: 0040-4039

DT Journal

LA German

AB Irradiation of perfluoro carbonyl ethers at 20° caused almost quant. decarbonylation. E.g.,  $[\text{CF}_3(\text{CF}_2)_2[\text{OCF}(\text{CF}_3)\text{CF}_2]_n\text{OCF}(\text{CF}_3)]_2\text{CO}$  (I;  $n = 2$ ), prepared from  $\text{CF}_3(\text{CF}_2)_2[\text{OCF}(\text{CF}_3)\text{CF}_2]_2\text{OCF}(\text{CF}_3)\text{COF}$  by treatment with  $\text{CF}_3(\text{CF}_2)_2[\text{OCF}(\text{CF}_3)\text{CF}_2]_2\text{OCF}:\text{CF}_2$ , on irradiation for 16 hr gave 98.5%  $[\text{CF}_3(\text{CF}_2)_2[\text{OCF}(\text{CF}_3)\text{CF}_2]_2\text{OCT}(\text{CF}_3)]_2$ . The dioxane II and the polymer I ( $n = 5-9$ ) were decarbonylated similarly, the latter at 130°.

IT 61097-78-7

RL: RCT (Reactant); RACT (Reactant or reagent)  
(addition reaction with perfluoro vinyl ether)

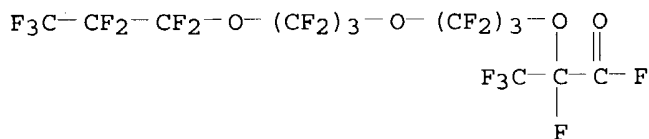
RN 61097-78-7 CAPLUS

CN	Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-[1,1,2,2,3,3-hexafluoro-3-[1,1,2,2,3,3-hexafluoro-3-(heptafluoropropoxy)propoxy]propoxy]- (9CI)	(CA)
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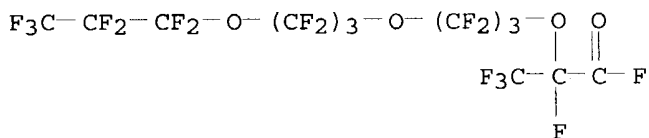


10/631,862

INDEX NAME)



L10 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1977:4890 CAPLUS  
DN 86:4890  
TI Preparation of carbonyl ethers containing fluorine  
AU Martini, Thomas  
CS Hoechst AG, Frankfurt, Fed. Rep. Ger.  
SO Tetrahedron Letters (1976), (22), 1861-4  
CODEN: TELEAY; ISSN: 0040-4039  
DT Journal  
LA German  
AB Perfluoro carbonyl ethers were prepared (54-92.4%) by contacting perfluoro acyl fluorides with perfluoro vinyl ethers in di- or tetraglyme at 20-60° in the presence of CsF. E.g., RCOF [R = CF<sub>3</sub>(CF<sub>2</sub>)<sub>2</sub>OCF(CF<sub>3</sub>)CF<sub>2</sub>OCF(CF<sub>3</sub>)] with CF<sub>2</sub>:CFOR<sub>1</sub> [R<sub>1</sub> = CF<sub>3</sub>(CF<sub>2</sub>)<sub>2</sub>OCF(CF<sub>3</sub>)CF<sub>2</sub>] gave 70% RCOCF(CF<sub>3</sub>)OR<sub>1</sub>. Compds. thus prepared included perfluoro dimethyldioxanyl-substituted carbonyl ethers and perfluoro polyoxyalkylene carbonyl compds.  
IT 61097-78-7  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(addition reaction with perfluoro vinyl ethers, cesium fluoride-catalyzed)  
RN 61097-78-7 CAPLUS  
CN Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-[1,1,2,2,3,3-hexafluoro-3-[1,1,2,2,3,3-hexafluoro-3-(heptafluoropropoxy)propoxy]propoxy]- (9CI) (CA INDEX NAME)



=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

63.85

222.42

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-3.50

-3.50

FILE 'REGISTRY' ENTERED AT 09:36:45 ON 12 NOV 2004

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STRUCTURE FILE UPDATES: 10 NOV 2004 HIGHEST RN 778546-63-7  
DICTIONARY FILE UPDATES: 10 NOV 2004 HIGHEST RN 778546-63-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more  
information enter HELP PROP at an arrow prompt in the file or refer  
to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> ....Testing the current file.... screen

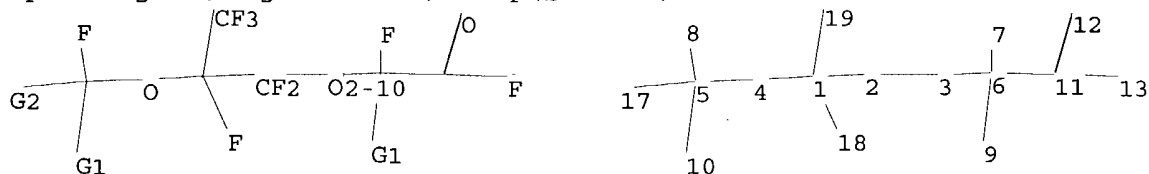
ENTER SCREEN EXPRESSION OR (END):end

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1838

L11 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\10631862a.str



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 17 18 19

chain bonds :

1-19 1-4 1-18 1-2 2-3 3-6 4-5 5-8 5-10 5-17 6-7 6-9 6-11 11-12 11-13

exact/norm bonds :

1-4 3-6 4-5 5-10 5-17 6-9 11-12

exact bonds :

1-19 1-18 1-2 2-3 5-8 6-7 6-11 11-13

G1:F,CF3

G2:C,F

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS

10:CLASS 11:CLASS 12:CLASS 13:CLASS 17:CLASS 18:CLASS 19:CLASS

L12 STRUCTURE UPLOADED

=> que L12 NOT L11

L13 QUE L12 NOT L11

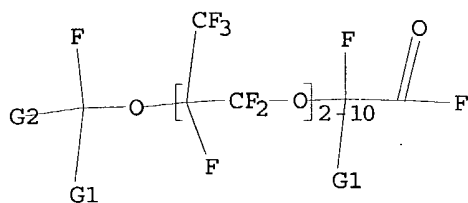
10/631,862

=> d

L13 HAS NO ANSWERS

L11 SCR 1992 OR 2016 OR 2021 OR 2026 OR 1838

L12 STR



G1 F,CF3

G2 C,F

Structure attributes must be viewed using STN Express query preparation.

L13 QUE L12 NOT L11

=> s l13

SAMPLE SEARCH INITIATED 09:37:22 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 63 TO ITERATE

100.0% PROCESSED 63 ITERATIONS

1 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 784 TO 1736

PROJECTED ANSWERS: 1 TO 80

L14 1 SEA SSS SAM L12 NOT L11

=> s l13 ful

FULL SEARCH INITIATED 09:37:31 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1221 TO ITERATE

100.0% PROCESSED 1221 ITERATIONS

43 ANSWERS

SEARCH TIME: 00.00.01

L15 43 SEA SSS FUL L12 NOT L11

=> dup rem l15

DUPLICATE IS NOT AVAILABLE IN 'REGISTRY'.

ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE

PROCESSING COMPLETED FOR L15

L16 43 DUP REM L15 (0 DUPLICATES REMOVED)

=> d 1-43 bib ab fhitr

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REG - RN

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SAM - Index Name, MF, and structure - no RN  
FIDE - All substance data, except sequence data  
IDE - FIDE, but only 50 names  
SQIDE - IDE, plus sequence data  
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used  
SQD - Protein sequence data, includes RN  
SQD3 - Same as SQD, but 3-letter amino acid codes are used  
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties  
EPROP - Table of experimental properties  
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

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CAN -- CA Accession Number  
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)  
IND -- Index Data  
IPC -- International Patent Classification  
PATS -- PI, SO  
STD -- BIB, IPC, and NCL

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ISTD -- STD format, indented

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OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.

The MAX format is the same as ALL.

The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

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ENTER DISPLAY FORMAT (IDE):end

=> d his

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L1 SCREEN 1992 OR 2016 OR 2021 OR 2026 OR 1838  
L2 STRUCTURE UPLOADED  
L3 QUE L2 NOT L1  
L4 SCREEN 1992 OR 2016 OR 2021 OR 2026 OR 1838  
L5 STRUCTURE UPLOADED  
L6 QUE L5 NOT L4  
L7 0 S L6

10/631,862

L8 2 S L6 FUL

FILE 'CAPLUS, USPATFULL, CASREACT' ENTERED AT 09:29:46 ON 12 NOV 2004

L9 7 S L8

L10 6 DUP REM L9 (1 DUPLICATE REMOVED)

FILE 'REGISTRY' ENTERED AT 09:36:45 ON 12 NOV 2004

L11 SCREEN 1992 OR 2016 OR 2021 OR 2026 OR 1838

L12 STRUCTURE UPLOADED

L13 QUE L12 NOT L11

L14 1 S L13

L15 43 S L13 FUL

L16 43 DUP REM L15 (0 DUPLICATES REMOVED)

=> file caplus uspatful

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=> s l16

L17 0 L16

=> s l15

L18 127 L15

=> dup rem l18

PROCESSING COMPLETED FOR L18

L19 119 DUP REM L18 (8 DUPLICATES REMOVED)

=> s l19 and hydrogen and (group (2a) VIII or palladium or platinum or rhodium) and fluoride

L20 4 L19 AND HYDROGEN AND (GROUP (2A) VIII OR PALLADIUM OR PLATINUM OR RHODIUM) AND FLUORIDE

=> d 1-4 bib ab fhitr

L20 ANSWER 1 OF 4 USPATFULL on STN

AN 2002:205829 USPATFULL

TI Synthesis of hydrogen peroxide

IN Beckman, Eric J., Pittsburgh, PA, UNITED STATES

Hancu, Dan, Pittsburgh, PA, UNITED STATES

PI US 2002110516 A1 20020815

US 6596884 B2 20030722

AI US 2001-998486 A1 20011130 (9)

RLI Division of Ser. No. US 1998-106480, filed on 29 Jun 1998, PATENTED

DT Utility

FS APPLICATION

LREP HENRY E. BARTONY, JR., BARTONY & HARE, LAW & FINANCE BUILDING, 429

FOURTH AVENUE, SUITE 1801, PITTSBURGH, PA, 15219

CLMN Number of Claims: 34

10/631,862

ECL Exemplary Claim: 1

DRWN 8 Drawing Page(s)

LN.CNT 1021

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for synthesizing hydrogen peroxide comprises the steps of: synthesizing an analog of anthraquinone that is miscible or soluble in carbon dioxide; reacting the analog of anthraquinone with hydrogen in carbon dioxide to produce a corresponding analog of tetrahydroquinone; and reacting the analog of tetrahydroquinone with oxygen to produce the hydrogen peroxide and regenerate the analog of anthraquinone. A chemical compound having the formula:  
##STR1##

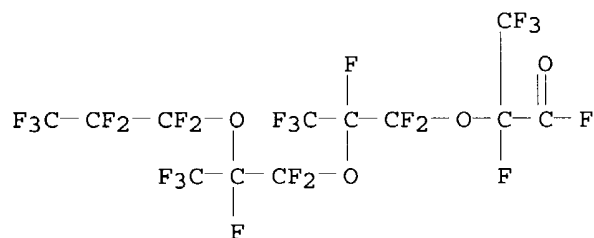
Wherein R.sup.1, R.sup.2, R.sup.3, R.sup.4, R.sup.5, R.sup.6, R.sup.7, and R.sup.8 are independently, the same or different, H, R.sup.C, or R.sup.SR.sup.C, wherein R.sup.S is a spacer group and R.sup.C is a fluoroalkyl group, a fluoroether group, a silicone group, an alkylene oxide group, a fluorinated acrylate group, or a phosphazine group, and wherein at least one of R.sup.1, R.sup.2, R.sup.3, R.sup.4, R.sup.5, R.sup.6, R.sup.7, and R.sup.8 is not H.

IT 27639-98-1

(synthesis of hydrogen peroxide)

RN 27639-98-1 USPATFULL

CN Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy]propoxy]- (9CI)  
(CA INDEX NAME)



L20 ANSWER 2 OF 4 USPATFULL on STN

AN 2001:105426 USPATFULL

TI SYNTHESIS OF HYDROGEN PEROXIDE

IN BECKMAN, ERIC J., PITTSBURGH, PA, United States  
HANCU, DAN, PITTSBURGH, PA, United States

PI US 2001007045 A1 20010705

US 6342196 B2 20020129

AI US 1998-106480 A1 19980629 (9)

DT Utility

FS APPLICATION

LREP HENRY E BARTONY JR, LAW & FINANCE BUILDING, 429 FOURTH AVENUE, SUITE  
801, PITTSBURGH, PA, 15219

CLMN Number of Claims: 34

ECL Exemplary Claim: 1

DRWN 8 Drawing Page(s)

LN.CNT 1022

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for synthesizing hydrogen peroxide comprises the steps of: synthesizing an analog of anthraquinone that is miscible or soluble in carbon dioxide; reacting the analog of anthraquinone with hydrogen in carbon dioxide to produce a corresponding analog of tetrahydroquinone; and reacting the analog of tetrahydroquinone with oxygen to produce the hydrogen peroxide and regenerate the

analog of anthraquinone. A chemical compound having the formula:  
##STR1##

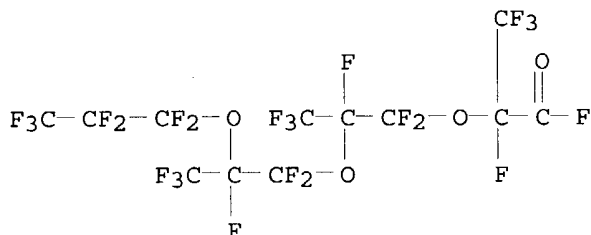
wherein R.sup.1, R.sup.2, R.sup.3, R.sup.4, R.sup.5, R.sup.6, R.sup.7, and R.sup.8 are independently, the same or different, H, R.sup.C, or R.sup.SR.sup.C, wherein R.sup.S is a spacer group and R.sup.C is a fluoroalkyl group, a fluoroether group, a silicone group, an alkylene oxide group, a fluorinated acrylate group, or a phosphazine group, and wherein at least one of R.sup.1, R.sup.2, R.sup.3, R.sup.4, R.sup.5, R.sup.6, R.sup.7, and R.sup.8 is not H.

IT 27639-98-1

(synthesis of hydrogen peroxide)

RN 27639-98-1 USPATFULL

CN Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy]propoxy]- (9CI)  
(CA INDEX NAME)



L20 ANSWER 3 OF 4 USPATFULL on STN

AN 88:27881 USPATFULL

TI Methacrylic acid ester

IN Yamamoto, Yasushi, Takasaki, Japan

Fujiki, Hironao, Takasaki, Japan

Kato, Hideto, Takasaki, Japan

Yoshida, Akira, Annaka, Japan

PA Shin-Etsu Chemical Co., Ltd., Tokyo, Japan (non-U.S. corporation)

PI US 4742177 19880503

AI US 1987-8538 19870129 (7)

PRAI JP 1986-19399 19860131

DT Utility

FS Granted

EXNAM Primary Examiner: Shaver, Paul F.

LREP Schwartz, Jeffery, Schwaab, Mack, Blumenthal & Evans

CLMN Number of Claims: 3

ECL Exemplary Claim: 1

DRWN No Drawings

LN.CNT 239

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A novel methacrylic acid ester represented by General Formula (I):

##STR1## wherein l is an integer of 1 to 3; m is an integer of 1 to 10; and n is an integer of 1 to 3,

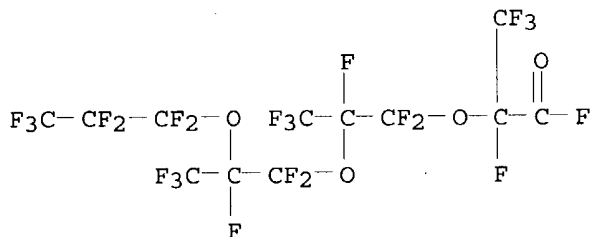
and a process for producing the same. This novel methacrylic acid ester is useful for the synthesis of polymers having useful functions such as an oxygen enrichment performance.

IT 27639-98-1

(condensation of, with allylamine, amides from)

RN 27639-98-1 USPATFULL

CN Propanoyl fluoride, 2,3,3,3-tetrafluoro-2-[1,1,2,3,3,3-hexafluoro-2-[1,1,2,3,3,3-hexafluoro-2-(heptafluoropropoxy)propoxy]propoxy]- (9CI)  
(CA INDEX NAME)



L20 ANSWER 4 OF 4 USPATFULL on STN

AN 76:55823 USPATFULL

TI Process for preparing perfluorinated ethers

IN von Halasz, Sigmar-Peter, Kelkheim, Taunus, Germany, Federal Republic of  
Kluge, Friedhelm, Frankfurt am Main, Germany, Federal Republic of

PA Hoechst Aktiengesellschaft, Frankfurt am Main, Germany, Federal Republic  
of (non-U.S. corporation)

PI US 3985810 19761012

AI US 1975-626349 19751028 (5)

PRAI DE 1974-2451493 19741030

DT      Utility

FS                      Granted

EXNAM Primary Examiner: Mars, Howard T.

LREP Curtis, Morris & Safford

CLMN Number of Claims: 10

ECL Exemplary Claim: 1

DRWN 1 Drawing Figure(s); 1 Drawing Page(s)

LN.CNT 600

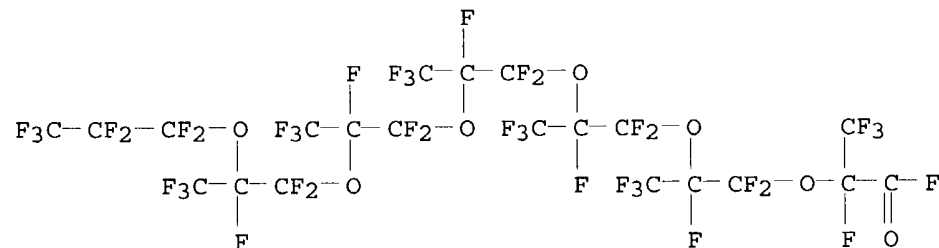
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Perfluorinated ethers containing carboxylic acid fluoride groups and optionally units derived from hexafluoropropene epoxide or tetrafluoroethylene epoxide are reacted with fluorine at temperatures of from 50° to 350°C in the presence of metallic catalysts. During the reaction carbonyl difluoride is splitted off and an ether is obtained in high yield which is free of carboxylic acid fluoride groups. Metallic silver is well suited as catalyst.

IT 13140-24-4  
(fluorination of, to perfluoroalkyl ethers)

RN 13140-24-4 USPATFULL

CN 3,6,9,12,15,18-Hexaoxaheneicosanoyl fluoride,  
2,4,4,5,7,7,8,10,10,11,13,13,14,16,16,17,19,19,20,20,21,21,21-  
tricosafluoro-2,5,8,11,14,17-hexakis(trifluoromethyl)- (7CI, 8CI, 9CI)  
(CA INDEX NAME)



=> file chemistry patent



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FILE 'ENCOMPLIT2' ACCESS NOT AUTHORIZED  
FILE 'ENCOMPPAT' ACCESS NOT AUTHORIZED  
FILE 'ENCOMPPAT2' ACCESS NOT AUTHORIZED  
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FULL ESTIMATED COST	43.47	422.15

	SINCE FILE	TOTAL
	ENTRY	SESSION
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		
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=> s (polyether or perfluoropolyoxyalkylene or perfluoropolyether) and (hydrogen? or reduc?) and (group (3a) VIII or palladium or platinum or rhodium or ruthenium or iron or cobalt or nickel or copper or iridium) and fluoride

10 FILES SEARCHED...  
19 FILES SEARCHED...  
26 FILES SEARCHED...  
36 FILES SEARCHED...  
46 FILES SEARCHED...  
52 FILES SEARCHED...  
59 FILES SEARCHED...  
65 FILES SEARCHED...  
73 FILES SEARCHED...  
75 FILES SEARCHED...

L21 10310 (POLYETHER OR PERFLUOROPOLYOXYALKYLENE OR PERFLUOROPOLYETHER)  
AND (HYDROGEN? OR REDUC?) AND (GROUP (3A) VIII OR PALLADIUM OR  
PLATINUM OR RHODIUM OR RUTHENIUM OR IRON OR COBALT OR NICKEL OR  
COPPER OR IRIDIUM) AND FLUORIDE

=> s l21 and fluoride? (10a) support?

29 FILES SEARCHED...  
51 FILES SEARCHED...  
64 FILES SEARCHED...  
75 FILES SEARCHED...

L22 195 L21 AND FLUORIDE? (10A) SUPPORT?

=> dup rem l22

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INVESTEXT, KOSMET, RDISCLOSURE, USAN, DGENE, DPCI, IMSPATENTS, LITALERT,  
PCTGEN, PROUSDDR, SYNTHLINE'.

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PROCESSING COMPLETED FOR L22

L23 180 DUP REM L22 (15 DUPLICATES REMOVED)

=> d 1-180 ti

L23 ANSWER 1 OF 180 PROMT COPYRIGHT 2004 Gale Group on STN

TI Trade name directory.

L23 ANSWER 2 OF 180 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1

TI Hydrofluoroethers having at least one hydrogenated-OCFX'CH3 end  
group where X' is F, CF3 and their reductive preparation process  
from acyl chlorides

L23 ANSWER 3 OF 180 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2

TI Process for the preparation of perfluoro polyethers acyl-fluoride  
ended by reduction of the corresponding peroxidic perfluoro  
polyethers

L23 ANSWER 4 OF 180 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3

TI Process for the preparation of perfluoropolyethers having aldehyde,

alcohol, and amine end groups by catalytic reduction

- L23 ANSWER 5 OF 180 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 4  
 TI PROCESS FOR THE PREPARATION OF PERFLUOROPOLYETHERS HAVING ALDEHYDE,  
 ALCOHOL, AMINE END GROUPS BY CATALYTIC REDUCTION
- L23 ANSWER 6 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN Azeotropic compositions comprising 1,1,1,2,3,3,3-heptafluoropropane and  
 processes using said compositions.
- L23 ANSWER 7 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN Photoreceptor for electrophotography having an overcoat layer with salt.
- L23 ANSWER 8 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN Photoreceptor for electrophotography having a salt of an electron  
 transport compound.
- L23 ANSWER 9 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN A proces for the preparation of perfluoropolyethers acyl-  
 fluoride ended by reduction of the corresponding  
 peroxidic perfluoropolyethers.
- L23 ANSWER 10 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN Hydrofluoroethers having at least one hydrogenated -OCFX'CH<sub>3</sub>  
 end group wherein X'=F, CF<sub>3</sub> and their preparation process.
- L23 ANSWER 11 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN PROTON-CONDUCTIVE POLYMER FILM AND PROCESS FOR PRODUCING THE SAME.
- L23 ANSWER 12 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN PROCESSES FOR THE PRODUCTION OF HEXAFLUOROPROPENE AND OPTIONALLY OTHER  
 HALOGENATED HYDROCARBONS CONTAINING FLUORINE.
- L23 ANSWER 13 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN PROCESSES FOR THE MANUFACTURE OF 1,1,1,3,3-PENTAFLUOROPROPENE,  
 2-CHLORO-PENTAFLUOROPROPENE.
- L23 ANSWER 14 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN AN ELECTROLYTE SYSTEM, A METHOD FOR THE PREPARATION THEREOF, THE USE  
 THEREOF AND A BATTERY CONTAINING THE ELECTROLYTE SYSTEM.
- L23 ANSWER 15 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN ELECTROSTATIC PROCESSING OF ELECTROCHEMICAL DEVICE COMPONENTS  
 TIFR TRAITEMENT ELECTROSTATIQUE DE COMPOSANTS DE DISPOSITIFS ELECTROCHIMIQUES
- L23 ANSWER 16 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN COMPOSITIONS AND METHODS FOR MODULATING PHYSIOLOGY OF EPITHELIAL  
 JUNCTIONAL ADHESION MOLECULES FOR ENHANCED MUCOSAL DELIVERY OF  
 THERAPEUTIC COMPOUNDS  
 TIFR COMPOSITIONS ET METHODES PERMETTANT DE MODULER LA PHYSIOLOGIE DE  
 MOLECULES D'ADHESION JUNCTIONNELLE EPITHELIALE EN VUE D'AMELIORER  
 L'ADMINISTRATION DE COMPOSES THERAPEUTIQUES PAR VOIE MUQUEUSE
- L23 ANSWER 17 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN COMPOSITIONS AND METHOD FOR ENHANCED MUCOSAL DELIVERY OF INTERFERON BETA  
 TIFR COMPOSITIONS ET METHODES DESTINEES A UNE ADMINISTRATION PAR VOIE  
 MUQUEUSE AMELIOREE DE L'INTERFERON BETA
- L23 ANSWER 18 OF 180 USPATFULL on STN  
 TI Photoreceptor for electrophotography having a salt of an electron  
 transport compound

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L23 ANSWER 19 OF 180 USPATFULL on STN  
TI Photoreceptor for electrophotography having an overcoat layer with salt

L23 ANSWER 20 OF 180 USPATFULL on STN  
TI Fuel cell, fuel cell generator, and equipment using the same

L23 ANSWER 21 OF 180 USPATFULL on STN  
TI Treatment of shipboard-generated oily wastewaters

L23 ANSWER 22 OF 180 USPATFULL on STN  
TI Compositions and methods for modulating physiology of epithelial junctional adhesion molecules for enhanced mucosal delivery of therapeutic compounds

L23 ANSWER 23 OF 180 USPATFULL on STN  
TI Proton-conductive polymer film and process for producing the same

L23 ANSWER 24 OF 180 USPATFULL on STN  
TI Compositions and methods for enhanced mucosal delivery of interferon beta

L23 ANSWER 25 OF 180 USPATFULL on STN  
TI Dopamine agonist formulations for enhanced central nervous system delivery

L23 ANSWER 26 OF 180 USPATFULL on STN  
TI Reagents and methods for library synthesis and screening

L23 ANSWER 27 OF 180 USPATFULL on STN  
TI Process for reducing the fluorine content of hydrofluorocarbons and hydrohalofluorocarbons

L23 ANSWER 28 OF 180 USPATFULL on STN  
TI Composite reverse osmosis membrane and method for producing the same

L23 ANSWER 29 OF 180 PROMT COPYRIGHT 2004 Gale Group on STN  
TI Trade name directory. (A-O).

L23 ANSWER 30 OF 180 USPATFULL on STN DUPLICATE 5  
TI Visible radiation sensitive composition

L23 ANSWER 31 OF 180 USPATFULL on STN DUPLICATE 6  
TI Fuel cell operated welder

L23 ANSWER 32 OF 180 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Fiber-supported pesticidal compositions

L23 ANSWER 33 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Electrophotographic photoreceptors.

L23 ANSWER 34 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Method of treating reverse osmosis membrane element and reverse osmosis membrane module.

L23 ANSWER 35 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Polymerization of cyclic ethers using heterogeneous catalysts.  
TIEN Polymerization of cyclic ethers using heterogeneous catalysts.

L23 ANSWER 36 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN STABILIZED INFRARED-SENSITIVE POLYMERIZABLE SYSTEMS  
TIFR SYSTEMES POLYMERISABLES STABILISES SENSIBLES AUX INFRAROUGES

- L23 ANSWER 37 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN VISIBLE RADIATION SENSITIVE COMPOSITION  
 TIFR COMPOSITION SENSIBLE AUX RAYONS VISIBLES
- L23 ANSWER 38 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN ELECTROCHEMICAL CELL AND METHOD OF MANUFACTURING THEREOF  
 TIFR CELLULE ELECTROCHIMIQUE ET PROCEDE DE FABRICATION ASSOCIE
- L23 ANSWER 39 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN DOPAMINE AGONIST FORMULATIONS FOR ENHANCED CENTRAL NERVOUS SYSTEM DELIVERY  
 TIFR FORMULATIONS AGONISTES DE LA DOPAMINE PERMETTANT UNE ADMINISTRATION AMELIOREE DANS LE SYSTEME NERVEUX CENTRAL
- L23 ANSWER 40 OF 180 USPATFULL on STN  
 TI Multi-layer negative working imageable element
- L23 ANSWER 41 OF 180 USPATFULL on STN  
 TI Colormetric sensor compositions and methods
- L23 ANSWER 42 OF 180 USPATFULL on STN  
 TI Acid stable membranes for nanofiltration
- L23 ANSWER 43 OF 180 USPATFULL on STN  
 TI Electrophotographic photoreceptors with novel overcoats
- L23 ANSWER 44 OF 180 USPATFULL on STN  
 TI Method of treating reverse osmosis membrane element, and reverse osmosis membrane module
- L23 ANSWER 45 OF 180 USPAT2 on STN  
 TI Catalytic equilibration to increase the relative mole fraction of CF<sub>3</sub>CHCl, CF<sub>3</sub>CHCl<sub>2</sub> or CF<sub>3</sub>CF<sub>2</sub>H in a composition
- L23 ANSWER 46 OF 180 USPATFULL on STN DUPLICATE 7  
 TI Production of 1,2-dihydro and 2,2-dihydro hexafluoropropanes and azeotropes thereof with HF
- L23 ANSWER 47 OF 180 USPATFULL on STN DUPLICATE 8  
 TI Process for the manufacture of 1,1,1,3,3-pentafluoropropene, 2-chloro-pentafluoropropene and compositions comprising saturated derivatives
- L23 ANSWER 48 OF 180 USPATFULL on STN DUPLICATE 9  
 TI PROCESSES FOR THE MANUFACTURE OF 1,1,1,3,3- PENTAFLUOROPROPENE, 2-CHLORO-PENTAFLUOROPROPENE AND COMPOSITIONS COMPRISING SATURATED DERIVATIVES THEREOF
- L23 ANSWER 49 OF 180 USPATFULL on STN DUPLICATE 10  
 TI Fuel cell operated welder
- L23 ANSWER 50 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN Fuel cell, fuel cell generator, and equipment using the same.
- L23 ANSWER 51 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN APPARATUS AND METHOD FOR GENERATING <sp>18</sp>F-FLUORIDE BY ION BEAMS  
 TIFR APPAREIL ET PROCEDE DE GENERATION DE <sp>18</sp>F-FLUORURE AU MOYEN DE FAISCEAUX IONIQUES
- L23 ANSWER 52 OF 180 USPATFULL on STN



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TI Stabilized infrared-sensitive polymerizable systems

L23 ANSWER 53 OF 180 USPATFULL on STN  
TI Fuel cell, fuel cell generator, and equipment using the same

L23 ANSWER 54 OF 180 USPATFULL on STN  
TI Non-aqueous electrolyte secondary

L23 ANSWER 55 OF 180 USPATFULL on STN  
TI Colormetric sensor compositions and methods

L23 ANSWER 56 OF 180 USPATFULL on STN  
TI Compositions suitable for electrochemical cells

L23 ANSWER 57 OF 180 USPATFULL on STN  
TI Interfacially polymerized, bipiperidine-polyamide membranes for reverse osmosis and/or nanofiltration and process for making the same

L23 ANSWER 58 OF 180 USPATFULL on STN  
TI Production of 1,2-dihydro and 2,2-dihydro hexafluoropropanes and azeotropes thereof with HF

L23 ANSWER 59 OF 180 USPATFULL on STN  
TI Lithium salt/carbonate electrolyte system, a method for the preparation thereof, the use thereof and a battery containing the electrolyte system

L23 ANSWER 60 OF 180 USPATFULL on STN DUPLICATE 11  
TI Fuel cell with monolithic flow field-bipolar plate assembly and method for making and cooling a fuel cell stack

L23 ANSWER 61 OF 180 USPATFULL on STN DUPLICATE 12  
TI Gas diffusion electrode with nanosized pores and method for making same

L23 ANSWER 62 OF 180 USPATFULL on STN DUPLICATE 13  
TI Process for producing printing sheet

L23 ANSWER 63 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Composite reverse osmosis membrane and method for producing the same.

L23 ANSWER 64 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN ACID STABLE MEMBRANES FOR NANOFILTRATION  
TIFR MEMBRANES POUR NANOFILTRATION PRESENTANT UNE STABILITE AUX ACIDES

L23 ANSWER 65 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN GAS DIFFUSION ELECTRODE WITH NANOSIZED PORES AND METHOD FOR MAKING SAME  
TIFR ELECTRODE DE DIFFUSION GAZEUSE A PORES DE TAILLE NANOMETRIQUE ET PROCEDE POUR LA FABRICATION D'UNE TELLE ELECTRODE

L23 ANSWER 66 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN FUEL CELL WITH MONOLITHIC FLOW FIELD-BIPOLAR PLATE ASSEMBLY AND METHOD FOR MAKING AND COOLING A FUEL CELL STACK  
TIFR PILE A COMBUSTIBLE A ASSEMBLAGE DE PLAQUES A CHAMP BIPOLAIRE ET ECOULEMENT MONOLITHIQUE, ET PROCEDE DE FABRICATION ET DE REFROIDISSEMENT D'UN EMPILEMENT DE PILES A COMBUSTIBLE

L23 ANSWER 67 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN ELECTRONICALLY CONDUCTING FUEL CELL COMPONENT WITH DIRECTLY BONDED LAYERS AND METHOD FOR MAKING SAME  
TIFR COMPOSANT DE PILE A COMBUSTIBLE CONDUCTEUR SUR LE PLAN ELECTRONIQUE DOTE DE COUCHES DIRECTEMENT LIEES ET PROCEDE DE FABRICATION CORRESPONDANT

L23 ANSWER 68 OF 180 USPATFULL on STN

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- TI Electronically conducting fuel cell component with directly bonded layers and method for making same
- L23 ANSWER 69 OF 180 USPATFULL on STN  
TI Fuel cell operated welder
- L23 ANSWER 70 OF 180 USPATFULL on STN  
TI Processes for the production of hexafluoropropene and optionally other halogenated hydrocarbons containing fluorine
- L23 ANSWER 71 OF 180 USPATFULL on STN  
TI Production of dihalomethanes containing fluorine and azeotropes of dihalomethanes containing chlorine with HF
- L23 ANSWER 72 OF 180 USPATFULL on STN  
TI Catalysts for halogenated hydrocarbon processing and their preparation and use
- L23 ANSWER 73 OF 180 USPATFULL on STN  
TI Gem-dihydropolyfluoroalkanes and monohydropolyfluoroalkenes, processes for their production, and use of gem-dihydropolyfluoroalkanes in cleaning compositions
- L23 ANSWER 74 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Interfacially polymerized, bipiperidine-polyamide membranes for reverse osmosis and/or nanofiltration and process for making the same.
- L23 ANSWER 75 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN PRODUCTION OF 1,2-DIHYDRO AND 2,2-DIHYDRO HEXAFLUOROPROPANES AND AZEOTROPES THEREOF WITH HF.
- L23 ANSWER 76 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Depolymerisation of polyethers using heterogeneous catalysts.  
TIEN Depolymerisation of polyethers using heterogeneous catalysts.
- L23 ANSWER 77 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Interfacially synthesized reverse osmosis membranes and processes for preparing the same.  
TIEN Interfacially synthesized reverse osmosis membranes and processes for preparing the same.
- L23 ANSWER 78 OF 180 USPATFULL on STN  
TI Catalytic hydrofluorination processes and catalysts
- L23 ANSWER 79 OF 180 USPATFULL on STN  
TI Catalysts for halogenated hydrocarbon processing, their precursors and their preparation and use
- L23 ANSWER 80 OF 180 USPATFULL on STN  
TI Electrophotographic imaging member with an improved charge transport layer
- L23 ANSWER 81 OF 180 USPATFULL on STN  
TI Process for the manufacture of 2-chloro-1,1,1-trifluoroethane
- L23 ANSWER 82 OF 180 USPATFULL on STN  
TI Electrophotographic imaging member
- L23 ANSWER 83 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PROCESSES FOR THE PRODUCTION OF HEXAFLUOROPROPENE AND OPTIONALLY OTHER HALOGENATED HYDROCARBONS CONTAINING FLUORINE  
TIFR PROCEDES RELATIFS A LA PRODUCTION D'HEXAFLUOROPROPENE ET EVENTUELLEMENT

D'AUTRES HYDROCARBURES HALOGENES CONTENANT DU FLUOR

- L23 ANSWER 84 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN SELECTIVE MEMBRANE AND PROCESS FOR ITS PREPARATION  
 TIFR MEMBRANE SELECTIVE ET PROCEDE DE PREPARATION DE CELLE-CI
- L23 ANSWER 85 OF 180 USPATFULL on STN  
 TI Production of dihalomethanes containing fluorine and azeotropes of dihalomethanes containing chlorine with HF
- L23 ANSWER 86 OF 180 USPATFULL on STN  
 TI Catalytic halogenated hydrocarbon processing and ruthenium catalysts for use therein
- L23 ANSWER 87 OF 180 USPATFULL on STN  
 TI Process for the production of trifluoroethylene
- L23 ANSWER 88 OF 180 USPATFULL on STN  
 TI Electrophotographic imaging member having an improved charge transport layer
- L23 ANSWER 89 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN PRODUCTION OF DIHALOMETHANES CONTAINING FLUORINE AND AZEOTROPES OF DIHALOMETHANES CONTAINING CHLORINE WITH HF.
- L23 ANSWER 90 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN PROCESSES FOR THE MANUFACTURE OF 1,1,1,3,3-PENTAFLUOROPROPENE, 2-CHLORO-PENTAFLUOROPROPENE AND COMPOSITIONS COMPRISING SATURATED DERIVATIVES THEREOF  
 TIFR PROCEDES DE PRODUCTION DE 1,1,1,3,3-PENTAFLUOROPROPENE, 2-CHLORO-PENTAFLUOROPROPENE ET COMPOSITIONS RENFERMANT LEURS DERIVES SATURES
- L23 ANSWER 91 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN AN ELECTROLYTE SYSTEM, A METHOD FOR THE PREPARATION THEREOF, THE USE THEREOF AND A BATTERY CONTAINING THE ELECTROLYTE SYSTEM  
 TIFR SYSTEME D'ELECTROLYTE, SON PROCEDE DE PREPARATION, SON UTILISATION ET PILE CONTENANT CE SYSTEME D'ELECTROLYTE
- L23 ANSWER 92 OF 180 USPATFULL on STN  
 TI Multilayer imaging member having improved substrate
- L23 ANSWER 93 OF 180 USPATFULL on STN  
 TI Fluorinated hydrocarbon compounds, their use in cosmetic compositions, method of preparing them and cosmetic compositions containing them
- L23 ANSWER 94 OF 180 USPATFULL on STN  
 TI Process for manufacture of high purity 1,1-dichlorotetrafluoroethane
- L23 ANSWER 95 OF 180 USPATFULL on STN  
 TI Process for manufacture of trichlorotrifluoroethanes
- L23 ANSWER 96 OF 180 USPATFULL on STN  
 TI Fuser member having fluoroelastomer layer
- L23 ANSWER 97 OF 180 USPATFULL on STN  
 TI Polymerization of, and depolymerization to, cyclic ethers using selected metal compound catalysts
- L23 ANSWER 98 OF 180 USPATFULL on STN  
 TI Process for reducing the fluorine content of hydrofluorocarbons and hydrohalofluorocarbons

- L23 ANSWER 99 OF 180 USPATFULL on STN  
 TI Electrophotographic imaging member having an improved charge transport layer
- L23 ANSWER 100 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN CATALYSTS FOR HALOGENATED HYDROCARBON PROCESSING, THEIR PRECURSORS AND THEIR PREPARATION AND USE  
 TIFR CATALYSEURS DE TRAITEMENT D'HYDROCARBURES HALOGENES, LEURS PRECURSEURS, LEUR PREPARATION ET LEUR UTILISATION
- L23 ANSWER 101 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN CATALYTIC HALOGENATED HYDROCARBON PROCESSING AND RUTHENIUM CATALYSTS FOR USE THEREIN  
 TIFR TRAITEMENT PAR CATALYSE DES HYDROCARBURES HALOGENES ET CATALYSEURS AU RUTHENIUM UTILISES
- L23 ANSWER 102 OF 180 USPATFULL on STN  
 TI Polymerization of, and depolymerization to, cyclic ethers using selected metal compound catalysts
- L23 ANSWER 103 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN PROCESS FOR THE MANUFACTURE OF 2-CHLORO-1,1,1-TRIFLUOROETHANE.
- L23 ANSWER 104 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN PROCESS FOR THE MANUFACTURE OF 2-CHLORO-1,1,1,2-TETRAFLUOROETHANE AND PENTAFLUOROETHANE.
- L23 ANSWER 105 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN PROCESS FOR THE MANUFACTURE OF 1,1,1,2-TETRAFLUOROETHANE.
- L23 ANSWER 106 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
 TIEN PROCESS FOR THE MANUFACTURE OF 2,2-DICHLORO-1,1,1-TRIFLUOROETHANE, 2-CHLORO-1,1,1,2-TETRAFLUOROETHANE AND PENTAFLUOROETHANE.
- L23 ANSWER 107 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
 TIEN PROCESS FOR THE MANUFACTURE OF 1,1,1,3,3,3-HEXAFLUOROPROPANE  
 TIFR PROCEDE DE PRODUCTION DE 1,1,1,3,3,3-HEXAFLUOROPROPANE
- L23 ANSWER 108 OF 180 USPATFULL on STN  
 TI Production of 1,2-dihydro and 2,2-dihydro hexafluoropropanes and azeotropes thereof with HF
- L23 ANSWER 109 OF 180 USPATFULL on STN  
 TI Acid gas fractionation process
- L23 ANSWER 110 OF 180 USPATFULL on STN  
 TI Acid gas fractionation process for fossil fuel gasifiers
- L23 ANSWER 111 OF 180 USPATFULL on STN  
 TI Process for the manufacture of 1,1,1,3,3,3-hexafluoropropane
- L23 ANSWER 112 OF 180 USPATFULL on STN  
 TI Process for manufacture of high purity 1, 1-dichlorotetrafluoroethane
- L23 ANSWER 113 OF 180 USPATFULL on STN  
 TI Polycarbonate polyester blends modified with poly(phenylene ether)
- L23 ANSWER 114 OF 180 USPATFULL on STN  
 TI Polymerization of, and depolymerization to, cyclic ethers using selected metal compound catalysts

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- L23 ANSWER 115 OF 180 USPATFULL on STN  
TI Polycarbonate compositions modified with poly(phenylene ether)
- L23 ANSWER 116 OF 180 USPATFULL on STN  
TI Process for reducing the fluorine content of hydrofluorocarbons and hydrohalofluorocarbons
- L23 ANSWER 117 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Silicone-derived solvent stable membranes.  
TIEN Silicone-derived solvent stable membranes.
- L23 ANSWER 118 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN REGENERATION OR ACTIVATION OF NOBLE METAL CATALYSTS USING FLUOROHALOCARBONS OR FLUOROHALOHYDROCARBONS.
- L23 ANSWER 119 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN MANUFACTURE OF 1,1,1,2-TETRAFLUOROETHANE.
- L23 ANSWER 120 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PRODUCTION OF 1,2-DIHYDRO AND 2,2-DIHYDRO HEXAFLUOROPROPANES AND AZEOTROPES THEREOF WITH HF  
TIFR PRODUCTION DE 1,2-DIHYDRO ET 2,2-DIHYDRO HEXAFLUOROPROPANES ET D'AZEOTROPES DE CES DERNIERS A L'AIDE DE FLUORURE D'HYDROGENE
- L23 ANSWER 121 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PROCESS FOR MANUFACTURE OF HIGH PURITY 1,1-DICHLOROTETRAFLUOROETHANE  
TIFR PRODECE POUR PRODUIRE DU 1,1-DICHLOROTETRAFLUOROETHANE HAUTEMENT PUR
- L23 ANSWER 122 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PROCESS FOR MANUFACTURE OF TRICHLOROTRIFLUOROETHANES  
TIFR PROCEDE DE PRODUCTION DE TRICHLOROTRIFLUOROETHANES
- L23 ANSWER 123 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PROCESS FOR MANUFACTURE OF HIGH PURITY 1,1-DICHLOROTETRAFLUOROETHANE  
TIFR PROCEDE DE PRODUCTION DE 1,1-DICHLOROTETRAFLUOROETHANE DE HAUTE PURETE
- L23 ANSWER 124 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PRODUCTION OF DIHALOMETHANES CONTAINING FLUORINE AND AZEOTROPES OF DIHALOMETHANES CONTAINING CHLORINE WITH HF  
TIFR PRODUCTION DE DIHALOMETHANES CONTENANT DU FLUOR ET D'AZEOTROPES DE DIHALOMETHANES CONTENANT DU CHLORE, A L'AIDE DE HF
- L23 ANSWER 125 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN MEMBRANE AND NON-MEMBRANE SOUR GAS TREATMENT PROCESS  
TIFR PROCEDE AVEC ET SANS MEMBRANE DE TRAITEMENT DE GAZ SULFUREUX
- L23 ANSWER 126 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN SOUR GAS TREATMENT PROCESS  
TIFR PROCEDE DE TRAITEMENT DE GAZ SULFUREUX
- L23 ANSWER 127 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN SOUR GAS MEMBRANE TREATMENT PROCESS INCLUDING DEHYDRATION  
TIFR PROCEDE DE TRAITEMENT MEMBRANAIRE DE GAZ SULFUREUX INCLUANT LA DESHYDRATATION
- L23 ANSWER 128 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN POLYMERIZATION, AND DEPOLYMERIZATION, OF CYCLIC ETHERS USING HETEROGENEOUS CATALYSTS  
TIFR POLYMERISATION ET DEPOLYMERISATION D'ETHERS CYCLIQUES A L'AIDE DE CATALYSEURS HETEROGENES
- L23 ANSWER 129 OF 180 USPATFULL on STN

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- TI Process for manufacture of high purity 1,1-dichlorotetrafluoroethane
- L23 ANSWER 130 OF 180 USPATFULL on STN  
TI Sour gas treatment process
- L23 ANSWER 131 OF 180 USPATFULL on STN  
TI Sour gas treatment process including membrane and non-membrane treatment steps
- L23 ANSWER 132 OF 180 USPATFULL on STN  
TI Sour gas treatment process including dehydration of the gas stream
- L23 ANSWER 133 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN ACTIVATION OF NOBLE METAL CATALYSTS FOR USE IN HYDRODEHALOGENATION OF HALOGEN-SUBSTITUTED HYDROCARBONS CONTAINING FLUORINE AND AT LEAST ONE OTHER HALOGEN.
- L23 ANSWER 134 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PROCESS FOR REDUCING THE FLUORINE CONTENT OF HYDROFLUOROCARBONS AND HYDROHALOFLUOROCARBONS  
TIFR PROCEDE DE REDUCTION DE LA TENEUR EN FLUOR D'HYDROFLUOROCARBONES ET D'HYDROHALOFLUOROCARBONES
- L23 ANSWER 135 OF 180 USPATFULL on STN  
TI Manufacture of 1,1,1,2-tetrafluoroethane
- L23 ANSWER 136 OF 180 USPATFULL on STN  
TI Process for the manufacture of 1,1,1,2-tetrafluoroethane
- L23 ANSWER 137 OF 180 USPATFULL on STN  
TI Process for the manufacture of 2,2-dichloro-1,1,1-trifluoroethane, 2-chloro-1,1,1,2-tetrafluoroethane and pentafluoroethane
- L23 ANSWER 138 OF 180 USPATFULL on STN  
TI Process for the manufacture of 2-chloro-1,1,1,2-tetrafluoroethane and pentafluoroethane
- L23 ANSWER 139 OF 180 USPATFULL on STN  
TI Acrylate polymers modified with poly(phenylene ether)
- L23 ANSWER 140 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Isomerization of saturated fluorohydrocarbons.  
TIEN Isomerization of saturated fluorohydrocarbons.
- L23 ANSWER 141 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Gas-phase fluorination process.  
TIEN Gas-phase fluorination process.
- L23 ANSWER 142 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN IGNITION RESISTANT POLYCARBONATE BLENDS  
TIFR MELANGES DE POLYCARBONATES ININFLAMMABLES
- L23 ANSWER 143 OF 180 USPATFULL on STN  
TI Styrenic copolymers modified with poly (phenylene ether)
- L23 ANSWER 144 OF 180 USPATFULL on STN  
TI Gem-dihdropolyfluoroalkanes and monohdropolyfluoroalkenes, processes for their production, and use of gem-dihdropolyfluoroalkanes in cleaning compositions
- L23 ANSWER 145 OF 180 USPATFULL on STN  
TI Silicon-derived solvent stable membranes

- L23 ANSWER 146 OF 180 USPATFULL on STN  
TI Polycarbonate/polyester blends modified with poly(phenylene ether)
- L23 ANSWER 147 OF 180 USPATFULL on STN  
TI Interfacially synthesized reverse osmosis membranes and processes for preparing the same
- L23 ANSWER 148 OF 180 USPATFULL on STN  
TI Contact charging device having a brush restricting member
- L23 ANSWER 149 OF 180 USPATFULL on STN  
TI Silicone-derived solvent stable membranes
- L23 ANSWER 150 OF 180 USPATFULL on STN  
TI Activation of noble metal catalysts for use in hydrodehalogenation of halogen-substituted hydrocarbons containing fluorine and at least one other halogen
- L23 ANSWER 151 OF 180 USPATFULL on STN  
TI Manufacture of 1,1,1,2-tetrafluoroethane
- L23 ANSWER 152 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Process for surface modifying a support membrane.
- L23 ANSWER 153 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Gas-phase fluorination process.  
TIEN Gas-phase fluorination process.
- L23 ANSWER 154 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PROCESS FOR THE MANUFACTURE OF 2-CHLORO-1,1,1,2-TETRAFLUOROETHANE AND PENTAFLUOROETHANE  
TIFR PROCEDE DE FABRICATION DE 2-CHLORO-1,1,1,2-TETRAFLUOROETHANE ET PENTAFLUOROETHANE
- L23 ANSWER 155 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PROCESS FOR THE MANUFACTURE OF 1,1,1,2-TETRAFLUOROETHANE  
TIFR PROCEDE DE FABRICATION DE 1,1,1,2-TETRAFLUOROETHANE
- L23 ANSWER 156 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PROCESS FOR THE MANUFACTURE OF 2-CHLORO-1,1,1-TRIFLUOROETHANE  
TIFR PROCEDE DE FABRICATION DE 2-CHLORO-1,1,1-TRIFLUOROETHANE
- L23 ANSWER 157 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN PROCESS FOR THE MANUFACTURE OF 2,2-DICHLORO-1,1,1-TRIFLUOROETHANE, 2-CHLORO-1,1,1,2-TETRAFLUOROETHANE AND PENTAFLUOROETHANE  
TIFR PROCEDE DE FABRICATION DE 2,2-DICHLORO-1,1,1-TRIFLUOROETHANE, 2-CHLORO-1,1,1,2-TETRAFLUOROETHANE ET PENTAFLUOROETHANE
- L23 ANSWER 158 OF 180 USPATFULL on STN  
TI Process for fabricating electrostatographic imaging members
- L23 ANSWER 159 OF 180 USPATFULL on STN  
TI Process for surface modifying a support membrane and product produced
- L23 ANSWER 160 OF 180 USPATFULL on STN  
TI Activation of noble metal catalysts using fluorohalocarbons or fluorohalohydrocarbons
- L23 ANSWER 161 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Bromofluoroethylhypofluorite and process for its preparation.  
TIEN Process for the preparation of bromofluoroethylhypofluorite.

- L23 ANSWER 162 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Hypofluorites and bis-hypofluorites, and process for preparing same.  
TIEN Process for preparing Hypofluorites and bis-hypofluorites.
- L23 ANSWER 163 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN  
TIEN Acoustic transducer.
- L23 ANSWER 164 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN ACTIVATION OF NOBLE METAL CATALYSTS FOR USE IN HYDRODEHALOGENATION OF  
HALOGEN-SUBSTITUTED HYDROCARBONS CONTAINING FLUORINE AND AT LEAST ONE  
OTHER HALOGEN  
TIFR ACTIVATION DE CATALYSEURS DE METAUX PRECIEUX DESTINES A  
L'HYDRODESHALOGENATION DES HYDROCARBURES SUBSTITUES PAR HALOGENE ET  
CONTENANT DU FLUOR ET AU MOINS UN AUTRE HALOGENE
- L23 ANSWER 165 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN REGENERATION OR ACTIVATION OF NOBLE METAL CATALYSTS USING  
FLUOROHALOCARBONS OR FLUOROHALOHYDROCARBONS  
TIFR REGENERATION OU ACTIVATION D'UN CATALYSEUR EN METAL PRECIEUX A L'AIDE  
D'HALOCARBONES FLUORES OU D'HALOHYDROCARBONES FLUORES
- L23 ANSWER 166 OF 180 USPATFULL on STN  
TI Regeneration of noble metal catalysts used in hydrodehalogenation of  
halogen-substituted hydrocarbons containing fluorine and at least one  
other halogen
- L23 ANSWER 167 OF 180 USPATFULL on STN  
TI Gas-phase fluorination
- L23 ANSWER 168 OF 180 USPATFULL on STN  
TI Solvent stable membranes
- L23 ANSWER 169 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN MANUFACTURE OF 1,1,1,2-TETRAFLUOROETHANE  
TIFR FABRICATION DE 1,1,1,2-TETRAFLUOROETHANE
- L23 ANSWER 170 OF 180 USPATFULL on STN  
TI Regeneration or activation of noble metal catalysts using  
fluorohalocarbons or fluorohalohydrocarbons
- L23 ANSWER 171 OF 180 USPATFULL on STN  
TI Gas-phase fluorination process
- L23 ANSWER 172 OF 180 USPATFULL on STN  
TI Isomerization of saturated fluorohydrocarbons
- L23 ANSWER 173 OF 180 USPATFULL on STN  
TI Support member for pressure sensor
- L23 ANSWER 174 OF 180 USPATFULL on STN  
TI Hypofluorites and bis-hypofluorites, and process for preparing same
- L23 ANSWER 175 OF 180 CAPLUS COPYRIGHT 2004 ACS on STN  
TI Bromofluoroethylhypofluorite and process for its preparation
- L23 ANSWER 176 OF 180 USPATFULL on STN  
TI Acoustic transducer
- L23 ANSWER 177 OF 180 PCTFULL COPYRIGHT 2004 Univentio on STN  
TIEN SUPPORT MEMBER FOR PRESSURE SENSOR  
TIFR ORGANE DE SUPPORT POUR CAPTEUR DE PRESSION



10/631,862

L23 ANSWER 178 OF 180 USPATFULL on STN

TI Scratch resistant recording materials for electroerosion printing not requiring a lubricant overcoat

L23 ANSWER 179 OF 180 JAPIO (C) 2004 JPO on STN

TI HYDROFLUOROETHERS AND METHOD FOR PRODUCING THE SAME

L23 ANSWER 180 OF 180 JAPIO (C) 2004 JPO on STN

TI METHOD FOR PRODUCING PERFLUOROPOLYETHERS HAVING ACYLFLUORIDE END GROUP

=> d 2,3,4,5,9,10,72,179,180 bib ab

L23 ANSWER 2 OF 180 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 1

AN 2004:100873 CAPLUS

DN 140:165774

TI Hydrofluoroethers having at least one hydrogenated-OCFX'CH<sub>3</sub> end group where X' is F, CF<sub>3</sub> and their reductive preparation process from acyl chlorides

IN Picozzi, Rosaldo; Di Meo, Antonella; Tonelli, Claudio

PA Solvay Solexis S.P.A., Italy

SO U.S. Pat. Appl. Publ., 6 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004024249	A1	20040205	US 2003-630697	20030731
	EP 1388554	A2	20040211	EP 2003-17181	20030729
	EP 1388554	A3	20040331		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	JP 2004067684	A2	20040304	JP 2003-205416	20030801
PRAI	IT 2002-MI1731	A	20020801		
OS	MARPAT 140:165774				
AB	Hydrofluoroethers TCFX'ORfCFXT' (T = CH <sub>3</sub> ; X, X' = F, CF <sub>3</sub> ; T' = F, Cl, H, Cl-3 perfluoroalkyl, CH <sub>3</sub> , CH <sub>2</sub> OH, COCl, CHO, CO <sub>2</sub> H; Rf = perfluoroalkylene, perfluoropolyoxyalkylene) are prepared by reduction with hydrogen in the presence of a platinum catalyst supported on metal fluorides (e.g., Pt/CaF <sub>2</sub> ) of the corresponding compds. with at least one -COCl end group.				

L23 ANSWER 3 OF 180 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 2

AN 2004:100858 CAPLUS

DN 140:146683

TI Process for the preparation of perfluoro polyethers acyl-fluoride ended by reduction of the corresponding peroxidic perfluoro polyethers

IN Di Meo, Antonella; Picozzi, Rosaldo; Tonelli, Claudio

PA Solvay Solexis S.P.A., Italy

SO U.S. Pat. Appl. Publ., 6 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2004024153	A1	20040205	US 2003-631862	20030801
	EP 1388555	A2	20040211	EP 2003-17182	20030729
	EP 1388555	A3	20040331		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK  
 JP 2004067683 A2 20040304 JP 2003-205413 20030801  
 PRAI IT 2002-MI1733 A 20020801  
 AB A process for the preparation of perfluoropolyethers of formula:  
 $\text{TCFX}'\text{OrfCFXCOF}$ , wherein: T = COF, F, C1-3 perfluoroalkyl; X, X' = F,  
 CF<sub>3</sub>; Rf = (C<sub>2</sub>F<sub>4</sub>O)<sub>m</sub>(CF<sub>2</sub>CF(CF<sub>3</sub>)O)<sub>n</sub>(CF<sub>2</sub>O)<sub>p</sub>(CF(CF<sub>3</sub>)O)<sub>q</sub>, n + m + p + q = 2-200,  
 by reduction with hydrogen of the corresponding peroxidic perfluoro  
 polyethers, in the presence of a catalyst formed by metals of the  
 VIII group supported on metal  
 fluorides, at a temperature 20-140°, and at a pressure 1-50 atmospheric

L23 ANSWER 4 OF 180 CAPLUS COPYRIGHT 2004 ACS on STN DUPLICATE 3

AN 2004:117259 CAPLUS

DN 140:146686

TI Process for the preparation of perfluoropolyethers having aldehyde,  
 alcohol, and amine end groups by catalytic reduction

IN Di, Meo Antonello; Picozzi, Rosaldo; Tonelli, Claudio

PA Solvay Solexis S.P.A., Italy

SO Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1388556	A2	20040211	EP 2003-17183	20030729
	EP 1388556	A3	20040331		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	US 2004068144	A1	20040408	US 2003-630698	20030731
	JP 2004068007	A2	20040304	JP 2003-205414	20030801
PRAI	IT 2002-MI1734	A	20020801		
AB	A process for the perfluoropolyether preparation having reactive end groups -CH <sub>2</sub> NH <sub>2</sub> , -CHO, -CH <sub>2</sub> OH, by reduction of the corresponding perfluoropolyethers having -CN, -COCl, -CHO end groups by using gaseous hydrogen in the presence of a catalyst constituted by Pd, Rh, or Ru, supported on solid metal fluorides, at 20-150° and under a pressure between 1 and 50 atmospheric is disclosed.				

L23 ANSWER 5 OF 180 IFIPAT COPYRIGHT 2004 IFI on STN DUPLICATE 4

AN 10560926 IFIPAT;IFIUDB;IFICDB

TI PROCESS FOR THE PREPARATION OF PERFLUOROPOLYETHERS HAVING ALDEHYDE,  
 ALCOHOL, AMINE END GROUPS BY CATALYTIC REDUCTION

INF Meo; Antonella Di, Milano, IT

Picozzi; Rosaldo, Milano, IT

Tonelli; Claudio, Milano, IT

IN Meo Antonella Di (IT); Picozzi Rosaldo (IT); Tonelli Claudio (IT)

PAF Solvay Solexis S.p.A.

PA Solvay Solexis SpA IT (8450)

AG ARENT FOX KINTNER PLOTKIN & KAHN, 1050 CONNECTICUT AVENUE, N.W., SUITE  
 400, WASHINGTON, DC, 20036, US

PI US 2004068144 A1 20040408

AI US 2003-630698 20030731

PRAI IT 2002-MI1734 20020801

FI US 2004068144 20040408

DT Utility; Patent Application - First Publication

FS CHEMICAL

APPLICATION

CLMN 4

AB Process for the perfluoropolyether preparation having reactive  
 end groups -CH<sub>2</sub>NH<sub>2</sub>, -CHO, -CH<sub>2</sub>OH, by reduction of the

corresponding perfluoropolyethers having -CN, -COCl, -CHO end groups by using gaseous hydrogen in the presence of a catalyst constituted by Pd, Rh, or Ru, supported on solid metal fluorides, at a temperature from 20 degrees C to 150 degrees C and under a pressure between 1 and 50 atmospheric

L23 ANSWER 9 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 1388555 EUROPATFULL ED 20040211 EW 200407 FS OS  
 TIEN A proces for the preparation of perfluoropolyethers acyl-fluoride ended by reduction of the corresponding peroxidic perfluoropolyethers.  
 TIDE Verfahren zur Herstellung von Perfluoropolyethern mit Acylfluor-Endgruppen durch Reduktion von peroxidischen Perfluoropolyethern.  
 TIFR Procédé pour la préparation de perfluoropolyethers avec groupes terminaux acylfluoro par la réduction de perfluoropolyalkylenes peroxidiques.  
 IN Di Meo, Antonello, Via Matteotti 14, 20010 Arluno, Milano, IT; Picozzi, Rosaldo, Via Roma 75, 20020 Cesate, Milano, IT; Tonelli, Claudio, Via Falck 57, 20099 Sesto S. Giovanni, Milano, IT  
 PA Solvay Solexis S.p.A., Via Turati, 12, 20121 Milano, IT  
 PAN 4314910  
 AG Sama, Daniele, Dr. et al., Sama Patents Via Morgagni, 2, 20129 Milano, IT  
 AGN 76061  
 OS MEPA2004015 EP 1388555 A2 0008  
 SO Wila-EPZ-2004-H07-T1a  
 DT Patent  
 LA Anmeldung in Englisch; Veroeffentlichung in Englisch  
 DS R AT; R BE; R BG; R CH; R CY; R CZ; R DE; R DK; R EE; R ES; R FI; R FR; R GB; R GR; R HU; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R RO; R SE; R SI; R SK; R TR; R AL; R LT; R LV; R MK  
 PIT EPA2 EUROPAEISCHE PATENTANMELDUNG  
 PI EP 1388555 A2 20040211  
 OD 20040211  
 AI EP 2003-17182 20030729  
 PRAI IT 2002-MI20021733 20020801  
 ABEN A process for the preparation of perfluoropolyethers of formula:  
 <chemical formula> wherein:  
 T = COF, F, C.sub1.-C.sub3. perfluoroalkyl;  
 X, X' = -F, -CF.sub3.; R.subf. = -(C.sub2.F.sub4.O).subm.(CF.sub2.CF(CF.sub3.O).subn.(CF.sub2.O).subp.(CF(CF.sub3.O).subq.-, the sum n+m+p+q ranges from 2 to 200,  
 by reduction with hydrogen of the corresponding peroxidic perfluoropolyethers, in the presence of a catalyst formed by metals of the VIII group supported on metal fluorides, at a temperature from 20°C to 140°C, and at a pressure between 1 and 50 atmospheric

L23 ANSWER 10 OF 180 EUROPATFULL COPYRIGHT 2004 WILA on STN

PATENT APPLICATION - PATENTANMELDUNG - DEMANDE DE BREVET

AN 1388554 EUROPATFULL ED 20040211 EW 200407 FS OS  
 TIEN Hydrofluoroethers having at least one hydrogenated -OCFX'CH3 end group wherein X'=F, CF3 and their preparation process.  
 TIDE Hydrofluorether mit mindestens einer hydrierten (-ocfx'ch3) -Endgruppe (x'=f,cf3). Verfahren zur ihrer Herstellung.

TIFR Hydrofluoroethers avec au moins un groupe terminal hydrogene -  
(-ocfx'ch3) (x'=f,cf3). Procede pour leur preparation.  
IN Picozzi, Rosaldo, Via Roma 75, 20020 Cesate, Milano, IT;  
Di Meo, Antonello, Via Matteotti 14, 20010 Arluno, Milano, IT;  
Tonelli, Claudio, Via Falck 57, 20099 Sesto S. Giovanni, Milano, IT  
PA Solvay Solexis S.p.A., Via Turati, 12, 20121 Milano, IT  
PAN 4314910  
AG Sama, Daniele, Dr. et al., Sama Patents Via Morgagni, 2, 20129 Milano,  
IT  
AGN 76061  
OS MEPA2004015 EP 1388554 A2 0009  
SO Wila-EPZ-2004-H07-T1a  
DT Patent  
LA Anmeldung in Englisch; Veroeffentlichung in Englisch  
DS R AT; R BE; R BG; R CH; R CY; R CZ; R DE; R DK; R EE; R ES; R FI; R FR;  
R GB; R GR; R HU; R IE; R IT; R LI; R LU; R MC; R NL; R PT; R RO; R SE;  
R SI; R SK; R TR; R AL; R LT; R LV; R MK  
PIT EPA2 EUROPAEISCHE PATENTANMELDUNG  
PI EP 1388554 A2 20040211  
OD 20040211  
AI EP 2003-17181 20030729  
PRAI IT 2002-MI20021731 20020801  
ABEN Hydrofluoroethers of formula: <chemical formula> wherein:  
T = CH.sub3.; X, X', equal to or different from each other, are  
selected between F, CF.sub3.;  
T00' = F, Cl, H, C.sub1.-C.sub3. perfluoroalkyl, CH.sub3.,  
CH.sub2.OH, COCl, CHO, CO.sub2.H;  
R.subf. is a perfluoroalkylene or a perfluoropolyoxyalkylene  
and respective preparation process by reduction with  
hydrogen in the presence of a platinum catalyst  
supported on metal fluorides of the corresponding  
compounds with at least one -COCl end group.

L23 ANSWER 72 OF 180 USPATFULL on STN  
AN 2001:131491 USPATFULL  
TI Catalysts for halogenated hydrocarbon processing and their preparation  
and use  
IN Rao, V. N. Mallikarjuna, Wilmington, DE, United States  
Subramanian, Munirpallam A., Kennett Square, PA, United States  
PA E. I. du Pont de Nemours and Company, Wilmington, DE, United States  
(U.S. corporation)  
PI US 6274780 B1 20010814  
AI US 1996-677062 19960709 (8)  
PRAI US 1995-1066P 19950711 (60)  
DT Utility  
FS GRANTED  
EXNAM Primary Examiner: Knode, Marian C; Assistant Examiner: Preisch, Nadine  
CLMN Number of Claims: 12  
ECL Exemplary Claim: 1,4  
DRWN No Drawings  
LN.CNT 646  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
AB A process is disclosed for changing the fluorine content of halogenated  
hydrocarbons containing from 1 to 6 carbon atoms, in the presence of a  
multiphase catalyst. The process involves producing the catalyst by  
heating a single phase solid catalyst precursor having the formula  
(NH.sub3).sub.6 Cr.sub.2-x M.sub.x F.sub.6 (where x is in the range of  
0.1 to 1 and M is at least one metal selected from the group consisting  
of Al, Sc, V, Fe, Ga and In) to about 400° or less to produce a  
multiphase composition wherein a phase containing crystalline M  
fluoride is homogeneously dispersed with a phase containing

chromium fluoride. Also disclosed are multiphase catalyst compositions consisting essentially of chromium fluoride and a crystalline fluoride of at least one metal selected from the above group (provided the atom percent of Cr is at least equal to the atom percent of the crystalline fluoride metals). Phases of the crystalline fluorides are homogeneously dispersed with phases of the chromium fluoride. Preparation of homogeneously dispersed multiphase catalyst compositions consisting essentially of fluorides of chromium and crystalline fluorides of at least one other metal selected from the above group (the atom percent Cr being at least equal to the atom percent of the other metal(s)) is also disclosed.

L23 ANSWER 179 OF 180 JAPIO (C) 2004 JPO on STN

AN 2004-067684 JAPIO

TI HYDROFLUOROETHERS AND METHOD FOR PRODUCING THE SAME

IN PICOZZI ROSALDO; DI MEO ANTONELLO; TONELLI CLAUDIO

PA SOLVAY SOLEXIS SPA

PI JP 2004067684 A 20040304 Heisei

AI JP 2003-205416 (JP2003205416 Heisei) 20030801

PRAI IT 2002-MI02 1731 20020801

SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2004

AB PROBLEM TO BE SOLVED: To obtain hydrofluoroethers by a method which is free from inconvenience and limitation of conventional techniques.

SOLUTION: The hydrofluoroethers are expressed by formula (II):

T-CFX'-O-R<SB>f</SB>-CFX-T' [T is CH<SB>3</SB>; X and X' are identical to or different from each other, and each F or CF<SB>3</SB>; T' is F, Cl, H, a 1-3C perfluoroalkyl, CH<SB>3</SB>, CH<SB>2</SB>OH, COCl, CHO or CO<SB>2</SB>H; and R<SB>f</SB> is a perfluoroalkylene or a perfluoropolyoxyalkylene]. The method for producing the hydrofluoroethers comprises reducing a compound corresponding to the product and having at least one -COCl end group by hydrogen gas in the presence of a platinum catalyst supported with a metal fluoride.

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L23 ANSWER 180 OF 180 JAPIO (C) 2004 JPO on STN

AN 2004-067683 JAPIO

TI METHOD FOR PRODUCING PERFLUOROPOLYETHERS HAVING ACYLFLUORIDE END GROUP

IN DI MEO ANTONELLO; PICOZZI ROSALDO; TONELLI CLAUDIO

PA SOLVAY SOLEXIS SPA

PI JP 2004067683 A 20040304 Heisei

AI JP 2003-205413 (JP2003205413 Heisei) 20030801

PRAI IT 2002-MI02 1733 20020801

SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2004

AB PROBLEM TO BE SOLVED: To produce a perfluoropolyether functionalized by -COF groups, by using a peroxyperfluoropolyether as a starting material and reducing the starting material in the presence of a catalyst with a substantially quantitative conversion and a selectivity of  $\geq 95\%$ .

SOLUTION: In a method for producing the perfluoropolyethers, the peroxyperfluoropolyether corresponding to the product is reduced by hydrogen gas in the presence of the catalyst which is formed out of an VIII group metal supported on a metal fluoride compound at a temperature of 20-140°C under a pressure of 1-50 atm, so that the perfluoropolyethers expressed by formula (I): T-CFX'-O-R<SB>f</SB>-CFX-COF [T is COF, F or a 1-3C perfluoroalkyl; X and X' are each -F or -CF<SB>3</SB>; R<SB>f</SB> is - (C<SB>2</SB>F<SB>4</SB>O)<SB>m</SB>(CF<SB>2</SB>CF(CF<SB>3</SB>O)<SB>n</SB>B)<SB>2</SB>O)<SB>p</SB>(CF(CF<SB>3</SB>O)<SB>q</SB>-; and (n+m+p+q) is 2-200] are produced.

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=> log y

COST IN U.S. DOLLARS

SINCE FILE  
ENTRY

TOTAL  
SESSION

FULL ESTIMATED COST

281.38

703.53

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE  
ENTRY

TOTAL  
SESSION

CA SUBSCRIBER PRICE

-2.10

-5.60

STN INTERNATIONAL LOGOFF AT 10:02:57 ON 12 NOV 2004